RAIL OPERATIONS COMPOSITE RISK MANAGEMENT



Army Accidents

AR 385-10 THE ARMY SAFETY PROGRAM 23 August 2007

3-3. Army accident

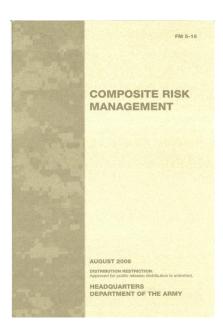
An Army accident is defined as an <u>unplanned event</u>, or series of events, which results in one or more of the following:

- Occupational illness to Army military or Army civilian personnel.
- Injury to on—duty Army civilian personnel.
- Injury to Army military on—duty or off—duty.
- Damage to Army property.
- Damage to public or private property, and/or injury or illness to non–Army personnel caused by Army operations (the Army had a causal or contributing role in the accident).



RISK MANAGEMENT GUIDANCE

- FM 5-19 Composite Risk Management.
- DA Pam 385-30 Mishap Risk Management.
- GCOR General Code of Operating Rules
- TC 55-88-1 Air Brake and Handling Rules.





RAIL OPERATIONS COMPOSITE RISK MANAGEMENT

- Leaders must develop techniques that will conserve and preserve resources.
- Missions have become increasingly demanding and so have the risks inherent in those missions.
- This increase in risks requires leaders to balance reasonable risks with essential mission needs.



RAIL OPERATIONS COMPOSITE RISK MANAGEMENT (cont)

- Risk is the possibility of loss.
- The loss can be death, injury, property damage, or mission failure.
- Composite Risk Management (CRM) identifies risks associated with a particular operation and weighs those risks against the overall mission value to be gained.



THE FOUR PRICIPLES OF RISK MANAGEMENT

- Accept no unnecessary risk.
- Accept risks when benefits outweigh losses.
- Make risk decisions at the proper level (consistent with local command policy).
- Manage risk in the concept and planning stages whenever possible.



THE RISK MANAGEMENT PROCESS

- 1. <u>Identify</u> hazards.
- 2. Assess the risk of those hazards.
- 3. Consider <u>control</u> options and make <u>decisions</u>.
- 4. <u>Implement</u> controls.
- 5. <u>Supervise</u>.



RISK ASSESSMENT MATRIX Probability Seldom Unlikely Occasional **Severity** Frequent Likely level В C D Ε Α **Catastrophic** Е Е Н Н M **Critical** E П Н Н M **Marginal** Ш Н M M **Negligible** IV M **E-Extreme High** H-High **M-Moderate** L-Low



IDENTIFY HAZARDS – what are they?

- Condition with potential to cause:
 - injury, illness, or death of personnel
 - damage to or loss of equipment or property
 - mission degradation
- Situation or event that can result in:
 - degradation of capabilities
 - mission failure

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IDENTIFY HAZARDS

– how are they identified?

- Experience and other experts
- Regulations, manuals, standard operating procedures (SOPs), policies
- Accident data
- What-if scenarios
- Readiness assessments
- After-action reviews (AARs)

ASSESS HAZARD RISKS

- What is probability of an event or occurrence?
- Estimate the expected result or severity of an event or occurrence
- Determine specified level of risk for a given probability and severity using the standard risk assessment matrix







ASSESS The Probability

Assess each hazard on the probability of the event/occurrence

	Risk Management Factors						
Description	Category	Outcome					
HAZARD PRO	HAZARD PROBABILITY CATEGORIES						
Frequent	Α	Likely to occur frequently					
Likely	В	Will occur several times in the life of an item					
Occasional	С	Likely to occur sometime in the life of an item					
Seldom	D	Unlikely, but possible to occur in the life of an item					
Unlikely	E	So unlikely, it can be assumed occurrence may not be experienced					



ASSESS The SEVERITY

Estimate the expected result or severity of an occurrence

	Risk Management Factors						
Description	Category	Outcome					
HAZARD SEVE	HAZARD SEVERITY CATEGORIES						
Catastrophic	I	eath or system loss					
Critical	II	Severe injury, severe occupational illness, or major system damage					
Marginal	Ш	Minor injury, minor occupational illness, or minor system damage					
Negligible	IV	Less than minor injury, occupational illness or damage					



RISKS LEVELS

- Determine specified level of risk using the standard assessment matrix
 - Extremely High Risk loss of ability to accomplish the mission if hazard occurs during the mission
 - **High Risk** significant degradation of mission capabilities in terms of the required mission standard, inability to accomplish all parts of the mission, or inability to complete the mission to standard if hazards occur during the mission
 - **Moderate** Risk expected degraded mission capabilities in terms of the required mission standard and will result in reduced mission capability if hazard occurs during the mission
 - Low Risk expected losses have little or no impact on accomplishing the mission



DEVELOP CONTROLS

& MAKE DECISIONS

- Eliminate the hazard or reduce the risk with:
 - Educational (awareness) Controls training
 - Physical Controls barriers/guards/signs
 - Avoidance / Elimination Controls positive action
- Controls must be:
 - Suitable remove the hazard or mitigate the risk
 - Feasible unit must have capability to implement
 - Acceptable benefit gained must justify the cost



DEVELOP CONTROLS

& MAKE DECISIONS (cont)

- Find control measures using:
 - Who entire crew
 - What fire fighting and damage control awareness
 - Where vessel safety equipment
 - When prior getting underway and then each week
 - How realistic training scenarios with safety gear



IMPLEMENT CONTROLS

- Ensure that controls are integrated into SOPs, written and verbal orders, and briefings:
 - Safety briefings
 - Orientation of replacement personnel
 - Training and drills
 - Effective communications



SUPERVISE AND EVALUATE

- Ensure that risk controls are implemented and enforced to standard
 - Provide good supervision
 - Situational awareness
 - Establish discipline
 - Identify new hazards
 - Assess effectiveness

THE RISK MANAGEMENT PROCESS



RISK ASSESSMENT MATRIX										
			Probability							
Severity level		Frequent A	Likely B	Occasional C	Seldom D	Unlikely E				
Catastrophic	1	Е	E	Н	Н	M				
Critical	II	E	Н	Н	M	L				
Marginal	III	Н	M	M	L	L				
Negligible	IV	M	L	L	L	L				
E- Extreme Hi	gh	H-High	N	l-Moderate	L	-Low				

RISK ASSESSMENT SHEET



Location	Task	Hazard	Potential Injury or Loss	Preliminary Risk Level	Control Measures	Hazard Fully Controlled	Residual Risk Level
Where will the training/ops take place?	What training/ops will be conducted?	What is the source of injury or loss?	Most likely, not most severe	What is the risk level (use matrix) before controls?	Be specific: what, where, when, how, and who. Make changes that reduce the risk without jeopardizing the mission.	yes or no	What is the risk level (use matrix) after controls?
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST-915 assisting. Perform tug handling with I without tow.	Allision	Catastrophic - Damage to vessel/equipment, damage to railroad/highway bridges, damage to dock structures, death	High (I, C)	While towing BD-6801, make bridge approaches only with assistance of \$1.5415. Conduct pre-maneuver briefings with key participants. Ensure reliable communications are tested and in place. Proceed at slow speed with adequate lookouts in place to monitor progress and report close quarters conditions. Abort poor approaches immediately.	Yes	Moderate(I, E)
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST-915 assisting. Perform tug handling with / without tow.	Collision	Catastrophic - Damage to vessel/equipment, death	High (I, D)	Comply with COMDTINSTM16672.2D "Navigation Rules" and keep an alert lookout. Post adequate number of watch standers. Conduct safety briefings prior getting underway. Maintain radio communications.	Yes	Low(II, E)
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST- 915 assisting. Perform tug handling with / without tow.	Fireł Abandon Ship	Catastrophic - Smoke inhalation, burn injuries, drowning, death	High (I, D)	Establish "good housekeeping" practices to eliminate potential ignition sources. Hold drills to familiarize crew with on-board fire fighting equipment. Ensure that all-hands are aware of their responsibilities detailed in the Emergency Station Bill. Conduct detailed debriefings to enhance crew comptetence.	,	Low(II, E)
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST- 915 assisting. Perform tug handling with / without tow.	Man Overboard	Catastrophic - Hypothermia/drowning	High (I, D)	Enforce buddy system policy and ensure work vests/anti- exposure coveralls are worn for weather deck evolutions. Stress team work. Hold training sessions for rescue boat crew.	Yes	Low(II, E)
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST-915 assisting. Perform tug handling with I without tow.	Grounding	Critical - Damage to vessel/equipment	High (II, C)	Ensure proper piloting and chart navigation techniques are used at all times. Utilize all means of position fixing to include GPS and terrestrial fixes. Calculate tide and current conditions. Post alert lookouts and provide them with knowledge of water depth characterisitios for the area during their watch rotation.		Low(II, E)

RISK ASSESSMENT SHEET (cont)



Location	Task	Hazard	Potential Injury or Loss	Preliminary Risk Level	Control Measures	Hazard Fully Controlled	Residual Risk Level
Where will the training/ops take place?	What training/ops will be conducted?	What is the source of injury or loss?	Most likely, not most severe	What is the risk level (use matrix) before controls?	Be specific: what, where, when, how, and who. Make changes that reduce the risk without jeopardizing the mission.	yes or no	What is the risk level (use matrix) after controls?
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST- 915 assisting. Perform tug handling with / without tow.	Physical/Mental Stress	Marginal - Injury due to carelessness	Moderate(III, B)	Ensure crew is properly rested during time off. Maintain good sanitation practices.	Yes	Low(III, D)
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST-915 assisting. Perform tug handling with / without tow.	Inexperienced Crew	Critical - Damage to vessel/personnel injury	High (II, C)	Provide instruction, both collective and individual prior to all activities and evolutions. Conduct exercises at easy pace with safety as a priority. Use the buddy system.	Yes	Low(II, E)
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST- 915 assisting. Perform tug handling with / without tow.	Poor Weather Conditions	Marginal - Personal injury, damage to equipment, vessel, and/or the environment	Moderate (III, C)	Monitor local and regional weather broadcasts from NWS and USCG. Do not attempt BD towing operations if wind conditions approach Small Craft Advisory levels (20 knots).	Yes	Low(III, E)
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST-915 assisting. Perform tug handling with I without tow.	Towing	Critical - Damage to vessel/equipment/personnel	High (II, B)	Ensure equipment is adequate and crew properly trained to rig the tow, operate the tow winches and line-throwing device. Refer to FM 55-501 "US ARMY TOWING MANUAL" as reference. Inspect gear prior to usage and use the right gear for the right tow. Provide adequate supervision. Proceed at easy and safe work pace for existing conditions.	Yes	Low(II, E)
Port Henderson, Curtis Creek, MD to Upper Chesapeake Bay	Make-up BD tow and maneuver BD through bridge openings with ST- 915 assisting. Perform tug handling with / without tow.	Poor Medical Response Due Location	Marginal - Increased severity of injury to personnel	Moderate(III, D)	Provide adequate on-board medical supplies. Area of operations will be within scope of timely USCG medical response capabilities. Review emergency medical response procedures including helo medivac that support the potential severity of injuries that may occur.	Yes	Low(III, D)

RISK ASSESSMENT SHEET (cont)



Location	Task	Hazard	Potential Injury or Loss	Preliminary Risk Level	Control Measures	Hazard Fully Controlled	Residual Risk Level
Where will the training/ops take place?	What training/ops will be conducted?	What is the source of injury or loss?	Most likely, not most severe	What is the risk level (use matrix) before controls?	Be specific: what, where, when, how, and who. Make changes that reduce the risk without jeopardizing the mission.	yes or no	What is the risk level (use matrix) after controls?
THIRD PORT	RIG TOW FOR BD CRANE	INEXPERIENCED CREW	CRITICAL	HIGH (II CRITICAL) (B LIKELY	CONDUCT ONE FULL DAY OF TRAINING ON TOWING PROCEDURES AND LAY OUT ALL TOWING JEWELRY NEEDED FOR THE OPERATION	YES	LOW (II CRITICAL E UNLIKELY)

LEVELS OF RISK APPROVAL

- Low Company Commander
- Moderate Group or Brigade Commander
- High First GO in chain of command
- Extremely High CG TRADOC





Accident	Accident notification, reporting requirements and suspenses										
PEACETIME			COMBAT ²								
ACCIDENT CLASS	TELEPHONIC NOTIFICATION	Abbreviated Report	Full Report DA FORM	TELEPHONIC NOTIFICATION	AGAR ONLY By any Means Poss (ARAS email fax						

ACCIDENT CLASS	TELEPHONIC NOTIFICATION WORKSHEET	Report AGAR	DA FORM 285	TELEPHONIC NOTIFICATION WORKSHEET	By any Means Possible (ARAS, email, fax, hand carry, mail)
ON-DUTY A & B	Immediately ¹	Not Required	IAI/CAI-90 days	Immediately ¹	As time Permits (Not to Exceed 60 days)
С	Not Required	W/in 90 days	Not Required	Not Required	As Time Permits (Not to Exceed 60 days)
D	Not Required	W/in 30 days	Not Required	Not Required	As Time Permits (Not to Exceed 30 days)
OFF-DUTY A & B	Immediately ¹	W/in 30 days	Not Required	Immediately ¹	As Time Permits (Not to Exceed 30 days)
C&D	Not Required	W/in 30 days	Not Required	Not required	As Time Permit (Not to Exceed 30 days)

NOTE:

Table 4-1

- USACRC must be notified IMMEDIATELY by phone at DSN 558-2660/2539/3410 or COM (334) 255-2660/2539/3410 or notify safety rep forward (during combat).
- 2. When the senior tactical commander determined that the situation, conditions or time does not permit normal peacetime investigation and reporting.

Table 4-1a, Accident notification, reporting requirements and suspenses

				POSITE RISK MANAGEMEN of this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYYY	(MMDD)
LOTS Operation	ns CP			1 Apr 2009	20. 010	5 Apr 2009	20090418	WINDE
4. PREPARED B				1 Apr 2005		5 Apr 2007	20070410	
a. LAST NAME			b. RANK		c. POSITION	1		
					TBOLC Op	erations Officer		
Victory B. A			2LT					
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	NITIAL 8. CONTROLS RESIDUAL 10. HOW TO		10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?	
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground gui admin / biv	de will be established at entrance of ouac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 18G	
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Victory B. A			2LT		твого ор	crations officer		
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5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	A	Select erec away from	ction, Hard hat or kevlar, gloves. ction position two times the height n over head lines. Ground system. cential winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
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Traffic control Run over, crushing admin area	М	Grounde admin	will be established at entrance of ac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 1SG	
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Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erecti away from o	on, Hard hat or kevlar, gloves. on position two times the height over head lines. Ground system. ntial winds and gusts.	Sdq Ldr & NCOIC			
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Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Eye protection, Hard hat or kevlar, gloves. Select erection position two times the height away from over head lines. Ground system. Watch potential winds and gusts. Ground guide will be established at entrance of admin / bivouac areas.		L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М			L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 18G	
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				POSITE RISK MANAGEMEN of this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYYY	/MMDD)
LOTS Operation	ns CP			1 Apr 2009	20. 010	5 Apr 2009	20090418	וטטואוואו
4. PREPARED B				1 Apr 2009		3 Apr 2009	20090418	
a. LAST NAME			b. RANK	and the second s	c. POSITION	ı		
						erations Officer		
Victory B. A			2LT		твоге ор	erations officer	_	
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground gui admin / biv	de will be established at entrance of ouac areas.		Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 1SG	
				HOW TO IMPL	EME	NT:		
				Issue Eye Prot	ection			
			`					
			ditional and	for action in Home 5 through a		December 2	9	
13 OVEDALL DIS	SK LEVEL AFTER CONTROLS	71000		ace for entries in Items 5 through	i i is provided	on Page 2.		1
X LOW	MODERA		HIC (Chec		HIGH			
14. RISK DECISIO	ON AUTHORITY							
a. LAST NAME		b. RANK	1.0	MOD Division Cheif		d. SIGNAT	FM 5-19	
Rutherford		MAJ	1.	DIVISION CHOIL			1 191 3-13	

				POSITE RISK MANA f this form, see FM 5-19; t					
1. MSN/TASK				2a. DTG BEGIN	, , , , , , , , , , , , , , , , , , ,	2b. DTG		A DATE BREDADED AAAA	44400
LOTS Operation	on CD				00	20. 016		3. DATE PREPARED (YYYY) 20090418	(ММОО)
4. PREPARED B				1 Apr 200	J9		5 Apr 2009	20090418	
a. LAST NAME	r		b. RANK			c. POSITION	ı		
a. LAST NAME			U. KANK				erations Officer		
Victory B. A		4	2LT			TBOLC OP	erations Officer		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS		9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erecti away from	ye protection, Hard hat or kevlar, gloves. elect erection position two times the height way from over head lines. Ground system. 'atch potential winds and gusts.			Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground guide will be established at entrance of admin / bivouac areas.			L	Check point will be established to contentrance and exitall personnel will be established to contentrance and exitally be esta	NCOIC CSM 1SG	
				l l	HOW	TO S	UPERVISE:		
				(COM	O NC			
							T		
								19	
		Ad	l Iditional spa	ce for entries in Items	5 through 1	1 is provided	I on Page 2.		
13. OVERALL RIS	SK LEVEL AFTER CONTROLS	ARE IMPLEME	NTED (Chec	k one)					
X row	MODERA	TE	HIG	SH E	XTREMELY	HIGH			
14. RISK DECISIO	ON AUTHORITY								
a. LAST NAME		b. RANK		. DUTY POSITION			d. SIGNA	TURE	
Rutherford		MAJ	II	MOD Division Cheif			***		

				POSITE RISK MANAGEMEN f this form, see FM 5-19; the propone					
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYY)	MMDDI	
LOTS Operation	os CP		1 Apr 2009	20. 010	5 Apr 2009	20090418	וטטוווווו		
4. PREPARED B				1 Apr 2009		3 Apr 2009	20090418		
a. LAST NAME			b. RANK		c. POSITION	J.			
a. LAST NAME			D. KANK			perations Officer			
Victory B. A			2LT		TBOLC OF	detations officer			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?	
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC		
Traffic control admin area	Run over, crushing	М	Ground guid admin / bive	de will be established at entrance of ouac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM		
				W	AS CO	ONTROL EFF	ECTIVE?:		
				AA	AR (after mission: Yes or No)				
							9		
				ce for entries in Items 5 through	11 is provided	d on Page 2.			
	SK LEVEL AFTER CONTROLS	ARE IMPLEME	NTED (Chec	ck one)					
X row	MODERA	TE	HIG	SH EXTREMELY	HIGH				
14. RISK DECISIO									
a. LAST NAME		b. RANK	177	. DUTY POSITION		d. SIGNAT			
Rutherford		MAJ	11	MOD Division Cheif			FM 5-19		

				POSITE RISK MANAGEMEN f this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	FND	3. DATE PREPARED (YYY)	VMMDDI
LOTS Operations CP				1 Apr 2009	20. 010	5 Apr 2009	20090418	(WINDD)
4. PREPARED B				1 Apr 2009		3 Apr 2009	20090418	
a. LAST NAME			b. RANK		c. POSITION	J.		
a. EAGT NAME			U. KANK			perations Officer		
Victory B. A			2LT		TBOLC OF	octations officer		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erecti away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground guid admin / bivo	de will be established at entrance of buac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 18G	
					all Misest Ris	sion Risk Lev	vel,	
							9	
				ce for entries in Items 5 through	11 is provided	d on Page 2.		
13. OVERALL RIS	SK LEVEL AFTER CONTROLS MODERA		NTED (Chec	SH EXTREMELY	HIGH			
14. RISK DECISIO	ON AUTHORITY							
a. LAST NAME		b. RANK	120	. DUTY POSITION		d. SIGNAT	URE	
			IN	MOD Division Cheif				
Rutherford		MAJ						

				POSITE RISK MANAGEMEN of this form, see FM 5-19; the propone				
1. MSN/TASK							2 DATE DREDADED AAAA	444001
THE RESIDENCE OF THE PERSON OF	CD			2a. DTG BEGIN 2b. DTG END			3. DATE PREPARED (YYYY)	(ММОО)
LOTS Operation 4. PREPARED B				1 Apr 2009		5 Apr 2009	20090418	
a. LAST NAME	Y		L DANK		- DOCITION	•		
ACCEPTAGE CONTRACTOR OF THE CO			b. RANK		c. POSITION	perations Officer		
Victory B. A			2LT				,	
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS		10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	head injury, Electrical so overhead wires or ligh	Н	Select erec away from	tion, Hard hat or kevlar, gloves. tion position two times the height over head lines. Ground system. ential winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run ov	М		ide will be established at entrance of vouac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 1SG	
	SUBTAS Erect Ar							
	Lets loo	<mark>k at an</mark>	<mark>iothe</mark>	<mark>r known hazard</mark> .				
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114		10.000	STATE OF COLUMN STATE OF STATE	ace for entries in Items 5 through 1	1 is provided	d on Page 2.		
13. OVERALL RIS	SK LEVEL AFTER CONTROLS			GH EXTREMELY	HIGH			
14. RISK DECISIO	ON AUTHORITY							
a. LAST NAME		b. RANK		c. DUTY POSITION MOD Division Cheif		d. SIGNAT	FM 5-19	
Rutherford	1	MAJ					1 111 0 10	

				POSITE RISK MANAGEMEN f this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYYY	(MMDD)
LOTS Operation	os CP			1 Apr 2009	20. 010	5 Apr 2009	20090418	
4. PREPARED B				1 Apr 2009	3 Apr 2003		20090418	
a. LAST NAME	Marian Company		b. RANK	***************************************	c. POSITION	ı		
u. Ener wine			D. HAMIN		ANALYSIS SERVICE CONTRACT	erations Officer		
Victory B. A			2LT		Thorse op	crations officer		
5. SUBTASK	6. HAZARDS	RISK LEVEL		8. CONTROLS		10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erecti away from	on, Hard hat or kevlar, gloves. on position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	un over, crushing	М	Ground guid admin / bivo	de will be established at entrance of ouac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 18G	
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		ancon in i	<u> </u>					
							+	
		Ad	lditional spa	ce for entries in Items 5 through 1	11 is provided	on Page 2.		1
13. OVERALL RIS	K LEVEL AFTER CONTROLS	ARE IMPLEME	NTED (Chec	k one)				
X row	MODERAT	E	HIG	EXTREMELY	HIGH			
14. RISK DECISIO	N AUTHORITY							
a. LAST NAME		b. RANK	120	DUTY POSITION		d. SIGNAT	URE	
Rutherford		MAI	II	MOD Division Cheif				

				POSITE RISK MANAGEMEN of this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYYY	/MMDD)
LOTS Operation	os CP			1 Apr 2009	20. 010	5 Apr 2009	20090418	וטטואואוט)
4. PREPARED B				1 Apr 2009	5 Apr 2009		20090418	
a. LAST NAME	V		b. RANK	and the second s	c. POSITION	ı		
						erations Officer		
Victory B. A			2LT		Trope of			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground gui admin / biv	de will be established at entrance of ouac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 1SG	
				D: Electrical om near by				
		ove	rhead	d lines			's	
40 01/55111 510	WIENEL AFTER CONTEST	71000		ace for entries in Items 5 through 1	11 is provided	on Page 2.		
THE PARTY OF THE P	SK LEVEL AFTER CONTROLS		-					
X row	MODERA	TE	HIC	GH EXTREMELY	HIGH			
14. RISK DECISIO	N AUTHORITY							-
a. LAST NAME		b. RANK	C	. DUTY POSITION		d. SIGNAT		
Lo A WE DA			I	MOD Division Cheif			FM 5-19	
Rutherford MAJ				·				

				POSITE RISK MANAGEMEN of this form, see FM 5-19; the propone					
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYYY	/MMDD)	
LOTS Operation	ns CP			1 Apr 2009	5 Apr 2009		20090418		
4. PREPARED B				1 Apr 2009		3 Apr 2009	20090418		
a. LAST NAME	A		b. RANK		c. POSITION	1			
a. LAOT HAME			D. IVAIVI			erations Officer			
Victory B. A			2LT		TBOLE OF	crations Officer			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?	
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC		
Traffic control admin area	Run over, crushing	М		de will be established at entrance of ouac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 1SG		
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			INI	TIAL RISK LEV	'EL:				
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				ace for entries in Items 5 through	11 is provided	l on Page 2.		1	
	SK LEVEL AFTER CONTROLS	ARE IMPLEME	NTED (Chec	ck one)					
X row	MODERA	TE	HIG	GH EXTREMELY	HIGH				
14. RISK DECISIO	ON AUTHORITY							-	
a. LAST NAME		b. RANK	C	. DUTY POSITION		d. SIGNAT	URE		
			11	IMOD Division Cheif					
Rutherford		MAJ							

				POSITE RISK MANAGEMEN f this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYY	(VMMDD)
LOTS Operation	ns CP			1 Apr 2009	20. 0.0	5 Apr 2009	20090418	(INIVIDE)
4. PREPARED B				1 Apr 2009		3 Apr 2007	20090418	
a. LAST NAME			b. RANK	· · · · · · · · · · · · · · · · · · ·	c. POSITION	1		
Section 1 to 400 And the First Business Annie of			New York of Control and Authorities and		TBOLC Op	erations Officer		
Victory B. A			2LT					
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground gui admin / biv	de will be established at entrance of ouac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 1SG	
						CONTROLS	S:	
						??		
				ce for entries in Items 5 through	11 is provided	on Page 2.		
THE OWNER OF THE PARTY OF THE P	SK LEVEL AFTER CONTROLS	ARE IMPLEME	NTED (Chec	ck one)				
Low	MODERA	TE	HIC	GH EXTREMELY	HIGH			
14. RISK DECISION		b. RANK	- 1.	. DUTY POSITION		1, 0000	TUDE	
a. LAST NAME		D. KANK	100	MOD Division Cheif		d. SIGNAT	FM 5-19	
Rutherford		MAJ	111	MOD DIVISION CHEN			F IVI 3-18	

				POSITE RISK MANAGEMEN of this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYY	YMMDD)
LOTS Operatio	ons CP			1 Apr 2009	20. 010	5 Apr 2009	20090418	(initial b)
4. PREPARED B				1 Apr 2005		5 Hpt 2005	20070410	
a. LAST NAME			b. RANK		c. POSITION	١		
Victory B. A			2LT		TBOLC Op	TBOLC Operations Officer		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground gui admin / biv	de will be established at entrance of ouac areas.	L	Check point will be established to control entrance and exit of vehicles all personnel will be brief.	NCOIC CSM 1SG	
		TROL	Eng Edu Enf	gineer = location ucate = brief So force = Spot che	oldiers eck or	on overhead assign NCO		
13. OVERALL RI	ISK LEVEL AFTER CONTROLS				o provided	. v vyv z.		
X row	MODERA*		П ніс		HIGH			
14. RISK DECISION	ON AUTHORITY							-
a. LAST NAME		b. RANK	1.5	. DUTY POSITION		d. SIGNAT	TURE	
D 6 195 198		200	I	MOD Division Cheif				
Rutherford	1	MAJ						

				POSITE RISK MANAGEMEN of this form, see FM 5-19; the propone					
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END		3. DATE PREPARED (YYYY	YMMDD)
LOTS Operation	ns CP			1 Apr 2009		5 Apr 2009		20090418	,,,,,,,
4. PREPARED B									
a. LAST NAME			b. RANK		c. POSITION	erations Officer	(4.		
Victory B. A	1		2LT						
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLE	EMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selectic provide PPE, Sdq Le enforces controls. Br Soldiers on hazards.	ader	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground gui admin / biv	de will be established at entrance of ouac areas.		Check point will be established to control entrance and exit of v all personnel will be b	ehicles	NCOIC CSM 1SG	
				RESIDUAL RIS	K LE\	<mark>/EL:</mark>			
				With CONTROI	LS:				
				??					
								4	
				ace for entries in Items 5 through	11 is provided	on Page 2.			
	SK LEVEL AFTER CONTROLS	ARE IMPLEME	NTED (Che	ck one)					
X row	MODERA	TE	HIG	GH EXTREMELY	HIGH				
14. RISK DECISIO	ON AUTHORITY								
a. LAST NAME		b. RANK		DUTY POSITION		d.	SIGNATU		
Rutherford		MAJ	1	MOD Division Cheif				FM 5-19	

				POSITE RISK MANAGEMEN' of this form, see FM 5-19; the propone					
1. MSN/TASK				2a. DTG BEGIN	2b. DTG			2 DATE BREDARED WWW	////DD\
LOTS Operation	oc CP				20. 016		2000	3. DATE PREPARED (YYYY) 20090418	(ММОО)
4. PREPARED B				1 Apr 2009	5 Apr 2009		2009	20090418	
a. LAST NAME			b. RANK	and the second s	c. POSITION	1			
					TBOLC Op		fficer		
Victory B. A			2LT		P				
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW	TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erect away from	ion, Hard hat or kevlar, gloves. ion position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.		Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground gui admin / biv	de will be established at entrance of ouac areas.	L	est ned ce an	t will be to control d exit of vehicles el will be brief.	NCOIC CSM 18G	
				HOW TO IMPL	EMEN	IT:			
				Plan location					
				Identify location	1				
				Brief location ar	nd wh	V			
				??	I			2	
		Ad	l Iditional spa	ace for entries in Items 5 through	11 is provided	on Page 2			
13. OVERALL RIS	SK LEVEL AFTER CONTROLS					-			
X row	MODERA	TE	HIG	GH EXTREMELY	HIGH				
14. RISK DECISIO	ON AUTHORITY								
a. LAST NAME		b. RANK	1.0	. DUTY POSITION			d. SIGNAT	URE	
Rutherford		MAJ	11	MOD Division Cheif					

				POSITE RISK MANAGEMEN f this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG		2 DATE BREDARED WWW	////DD\
LOTS Operation	on CD				20. D1G		3. DATE PREPARED (YYYY) 20090418	(ММОО)
4. PREPARED B				1 Apr 2009		5 Apr 2009	20090418	
a. LAST NAME	I		b. RANK		c. POSITION	J.		
a. LAST NAME			D. KANK			perations Officer		
Victory B. A			2LT		TBOLE OF	derations Officer		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL		8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFEC- TIVE?
Erect Antenna	Eye, head injury, Electrical shock - overhead wires or lightning	Н	Select erecti away from o	on, Hard hat or kevlar, gloves. on position two times the height over head lines. Ground system. ntial winds and gusts.	L	Supervise site selection, provide PPE, Sdq Leader enforces controls. Brief Soldiers on hazards.	Sdq Ldr & NCOIC	
Traffic control admin area	Run over, crushing	М	Ground guid admin / bivo	de will be established at entrance of ouac areas.	L	Check point will be established to control entrance and exit of y all personnel will by	NCOIC CSM 18G	
				HOV	V TO	SUPERVISE ??		
		Ad	ditional spa	ce for entries in Items 5 through 1	11 is provided	d on Page 2.	7.	
13. OVERALL RIS	SK LEVEL AFTER CONTROLS	ARE IMPLEME	NTED (Chec	k one)				
X LOW	MODERA	TE	HIG	EXTREMELY	HIGH			
14. RISK DECISIO	ON AUTHORITY							
a. LAST NAME		b. RANK	C	DUTY POSITION		d. SIGNAT	URE	
			IN	MOD Division Cheif		X.	FM 5-19	
Rutherford		MAJ					5 10	

				POSITE RISK MANAGEMEN f this form, see FM 5-19; the propone				
1. MSN/TASK				2a. DTG BEGIN	2b. DTG	END	3. DATE PREPARED (YYYY	VMMDD)
LOTS Operation	ns CP			1 Apr 2009	20. 010	5 Apr 2009	20090418	(WINDD)
4. PREPARED B				1 Apr 2009	5 Apr 2005		20090418	
a. LAST NAME			b. RANK	-	c. POSITION	ı		
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Victory B. A			2LT		The state of the s			
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